

Amendments to the Claims

1. (currently amended) A communication system, comprising:
at least one community, each community comprised of:
a community service to manage the communication system, wherein
managing the communications system includes registering distributed,
persistent stores;

at least one ~~Space~~ distributed, persistent store having publish and
subscribe capability and communicating using a first protocol; and

at least one double agent, operable to communicate with entities using
a second protocol and the ~~Space~~ persistent store using the first protocol; and

at least one non-space specific double agent, operable to communicate with persistent
stores outside the community by taking any objects from at least one persistent store in
the community intended for a ~~Space~~ persistent store in another community and
transferring ~~them~~ the objects to the ~~Space~~ persistent store in another community.
2. (currently amended) The communication system of claim 1, wherein the at least one
double agent further comprises a universal double agent (UDA) capable of communicating
with the ~~Space~~ persistent store and any entity.
3. (previously presented) The communication system of claim 1, wherein the at least
one double agent further comprises a morphing double agent (MDA) capable of adopting
characteristics to communicate with any entity.
4. (original) The communication system of claim 1, wherein the at least one double
agent further comprises at least one device specific double agent.
5. (original) The communication system of claim 1, wherein the at least one non-space
specific double agent further comprises a determination agent.

6. (currently amended) A method of providing communications, the method comprising:

establishing a Space distributed, persistent store having a publish and subscribe capability;

providing a community service to manage a communications system including the persistent store, wherein managing the communication system includes registering persistent stores and other members;

inserting an object into the Space persistent store, wherein the object is generated by a double agent in communication with a member of a Community requesting an action;

providing notification to subscribed members of the Community of the insertion of the object into the Space persistent store; and

transferring objects from the Space persistent store in the Community to a Space persistent store in another Community as necessary.

7. (currently amended) The method of claim 6, wherein the method further comprises reinserting objects intended for other spaces into the Space persistent store.

8. (currently amended) The method of claim 6 wherein the space persistent store, the double agent and the subscribed members reside on at least two different computing devices.

9. (original) The method of claim 6 wherein the object inserted includes a wrapper addressed for a determination agent.

10. (canceled)

11. (currently amended) A computer-readable medium, wherein the medium includes software code, that when executed, results in:

establishment of a Space distributed, persistent store having a publish and subscribe capability;

insertion of an object into the Space persistent store, wherein the object is generated by a double agent in communication with a member of a Community requesting an action; providing notification to subscribed members of the Community of the insertion of the object into the space- persistent store; and

transferring objects from the Space persistent store in the Community to a Space persistent store in another Community as necessary.

12. (original) The computer-readable medium of claim 10, wherein the medium is comprised of at least two computing devices.

13. (currently amended) A network device including a processor and a memory, the processor configured to:

establish a Space distributed, persistent store in the memory;

execute an agent to generate an object in response to a request from a member of a Community;

provide a community service for registering persistent stores and agents within a community; and

insert the object into the Space persistent store, wherein the Space persistent store provides notification to subscribed members of the Community of the insertion of the object into the Space persistent store by taking any objects from at least one Space persistent store in the community intended for a Space persistent store in another community and transferring them the objects to the Space persistent store in another community.

Please add the following claims:

14. (new) The communications system of claim 1, further comprising a Dynamic Host Configuration Protocol object residing in the persistent store to provide network addresses to members of the community.

15. (new) The communications system of claim 1, further comprising a Lightweight Directory Access Protocol object residing in the persistent store to provide a directory of services.

16. (new) A method of providing communications, the method comprising:
- receiving a call from a first user;
 - using a double agent to generate an object representing the call, wherein the object identifies a called party;
 - inserting the object into the persistent store;
 - providing notification to subscribed members of the Community of the insertion of the object into the persistent store;
 - determining that the object is unresolvable by any member of the community;
 - transferring the object from the persistent store in the Community to a persistent store in another Community;
 - resolving the object in the other community; and
 - sending a call notification to the called party.
17. (new) A network device, comprising:
- means for establishing a distributed, persistent store in the memory;
 - means for executing an agent to generate an object in response to a request from a member of a Community;
 - means for providing a community service for registering persistent stores and agents within a community; and
 - means for inserting the object into the persistent store, wherein the persistent store provides notification to subscribed members of the Community of the insertion of the object into the persistent store by taking any objects from at least one persistent store in the community intended for a persistent store in another community and transferring the objects to the persistent store in another community.